



Hampton Roads District Special Projects

ASHE Greater Hampton Roads

November 20, 2012

Bruce Duvall, PE

District PMO Manager

Hampton Roads District

Agenda

- Overview
- VDOT Performance
- Transportation Funding Basics
- Regional Priorities
- Special Projects



VDOT Performance

Doing more with less



State Overview

Every year, over 79 billion miles are traveled on our roads



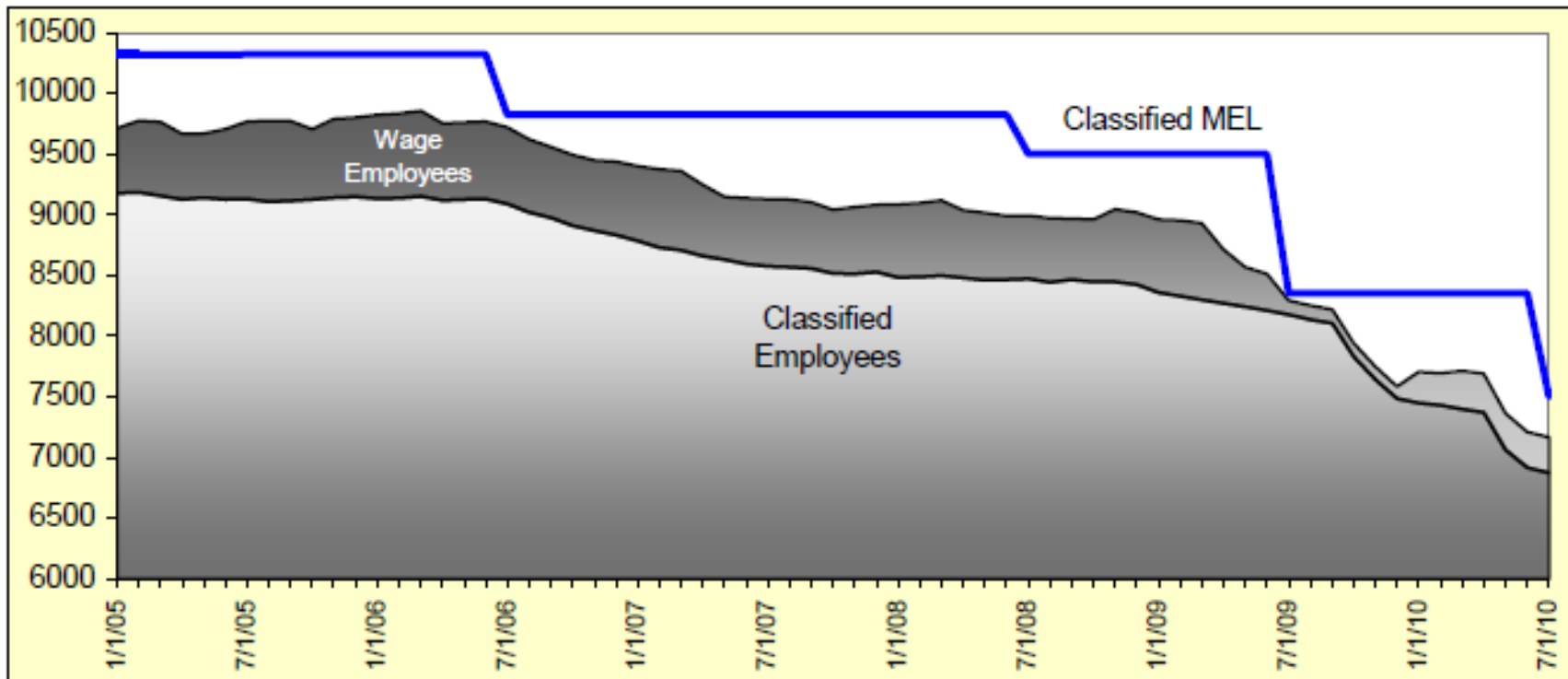
4

VDOT maintains the third largest roadway system in the country:

- 1) TXDOT - 79,800 lane miles by 14,400 employees (5.54 m/emp)
- 2) NCDOT - 79,000 lane miles by 12,400 employees (6.37 m/emp)
- 3) VDOT - 57,000 lane miles by 7,500 employees (7.60 m/emp)

VDOT Staffing History

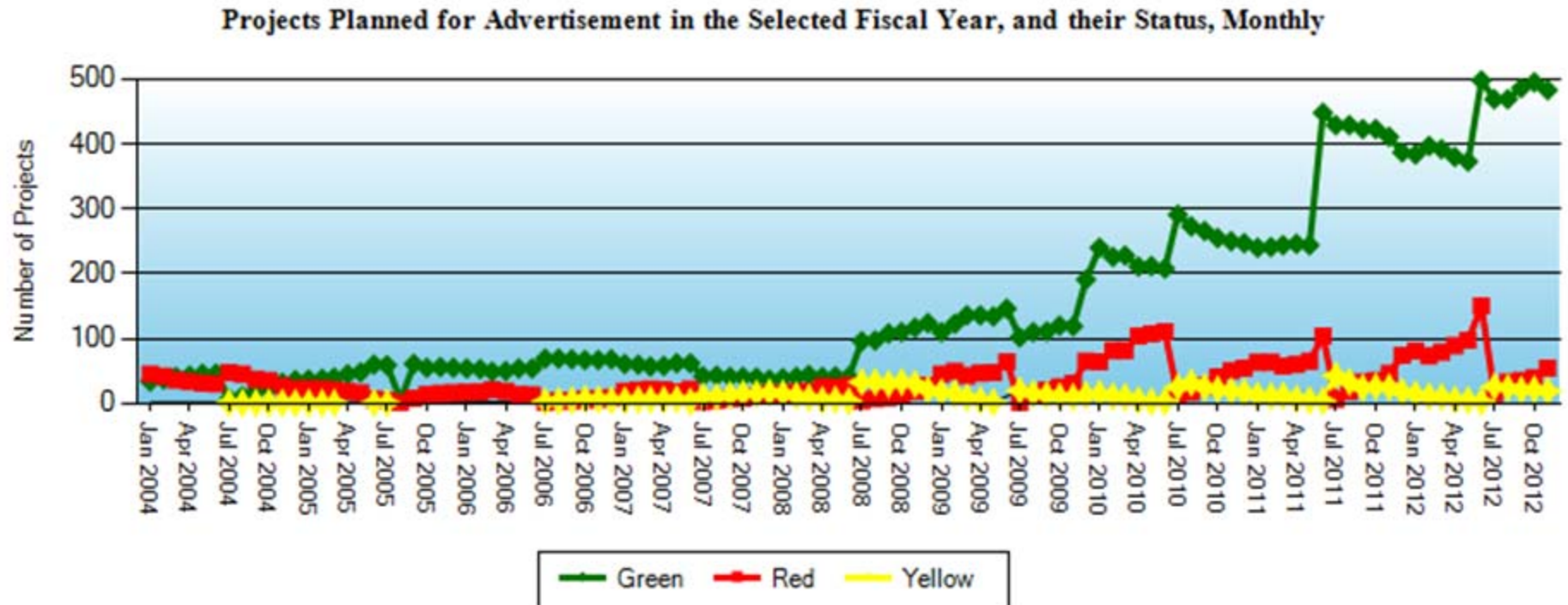
January 2005 to July 2010



Source: Cherry, Bekaert & Holland Performance Audit, August 2010

Yearly payroll savings estimated at \$53 million

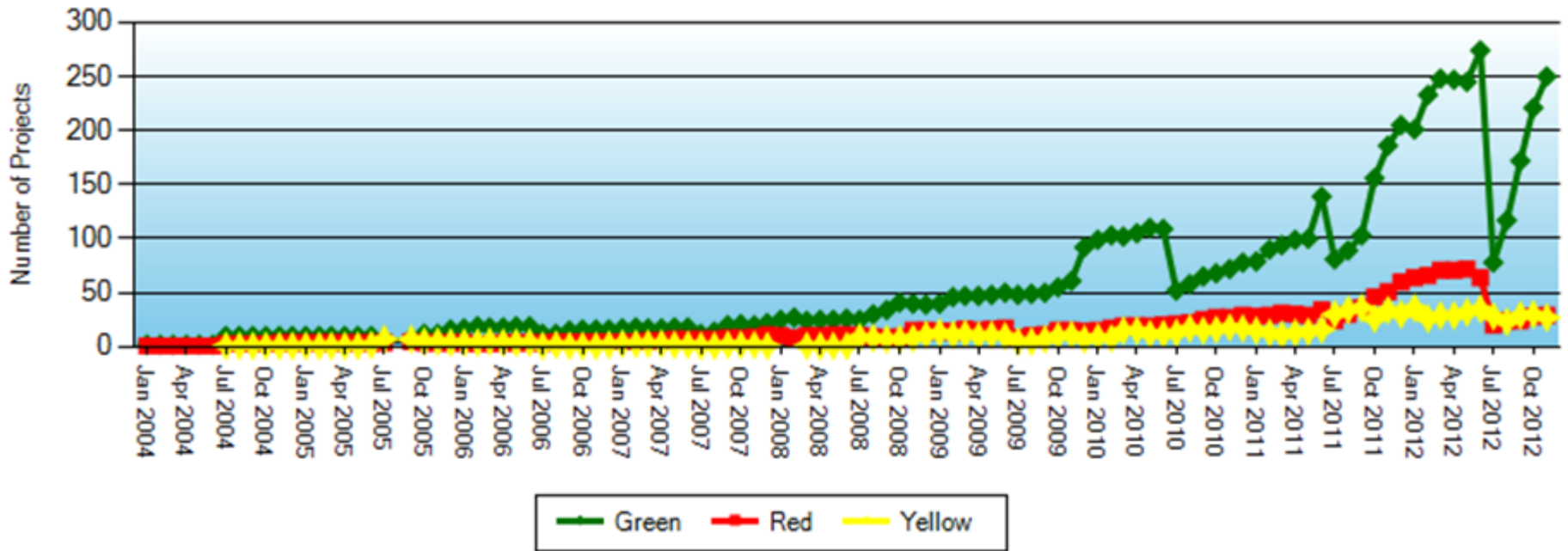
VDOT On-Time Project Development January 2004 to Current



Source: VDOT Dashboard, VDOT Managed Project Development Trend, August 2010

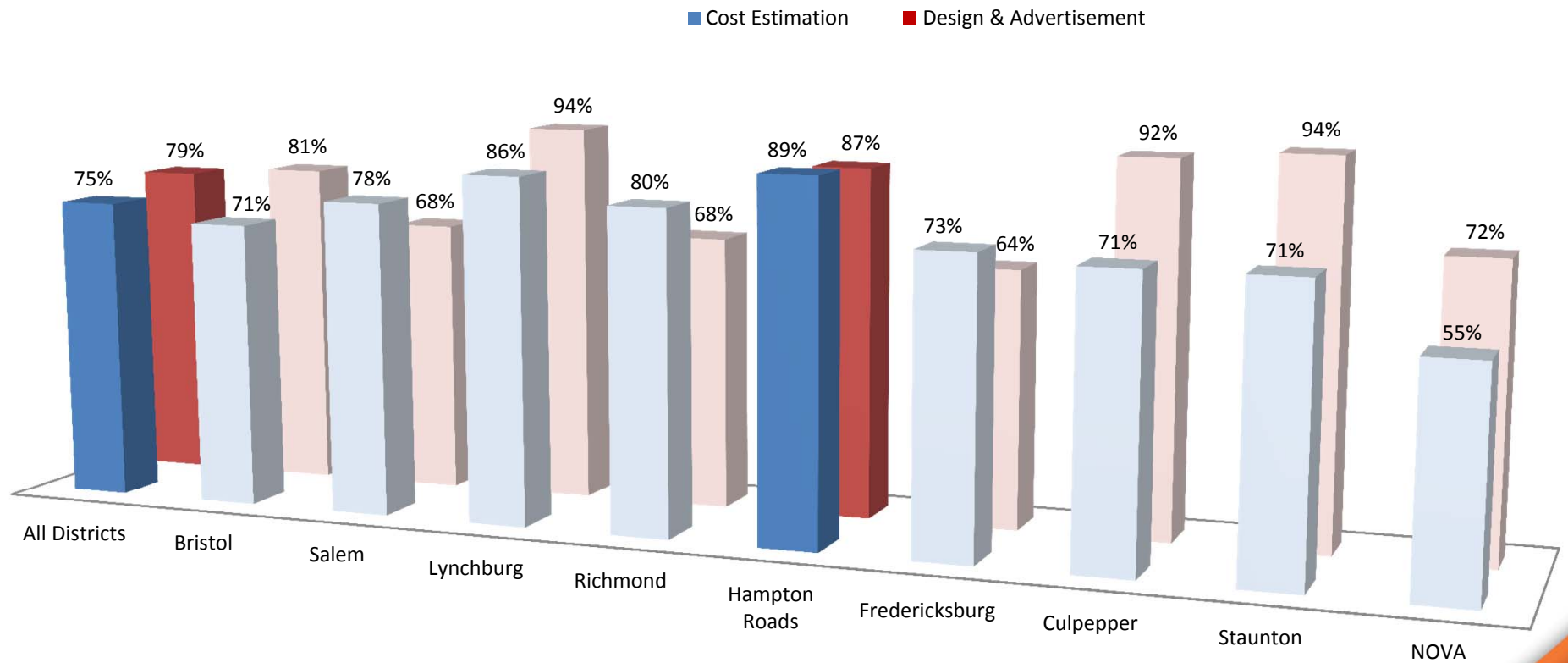
VDOT On-Budget Project Development January 2004 to April 2012

Projects Rated for Cost Estimates and Planned for Advertisement in the Selected Fiscal Year, and their Status, Monthly



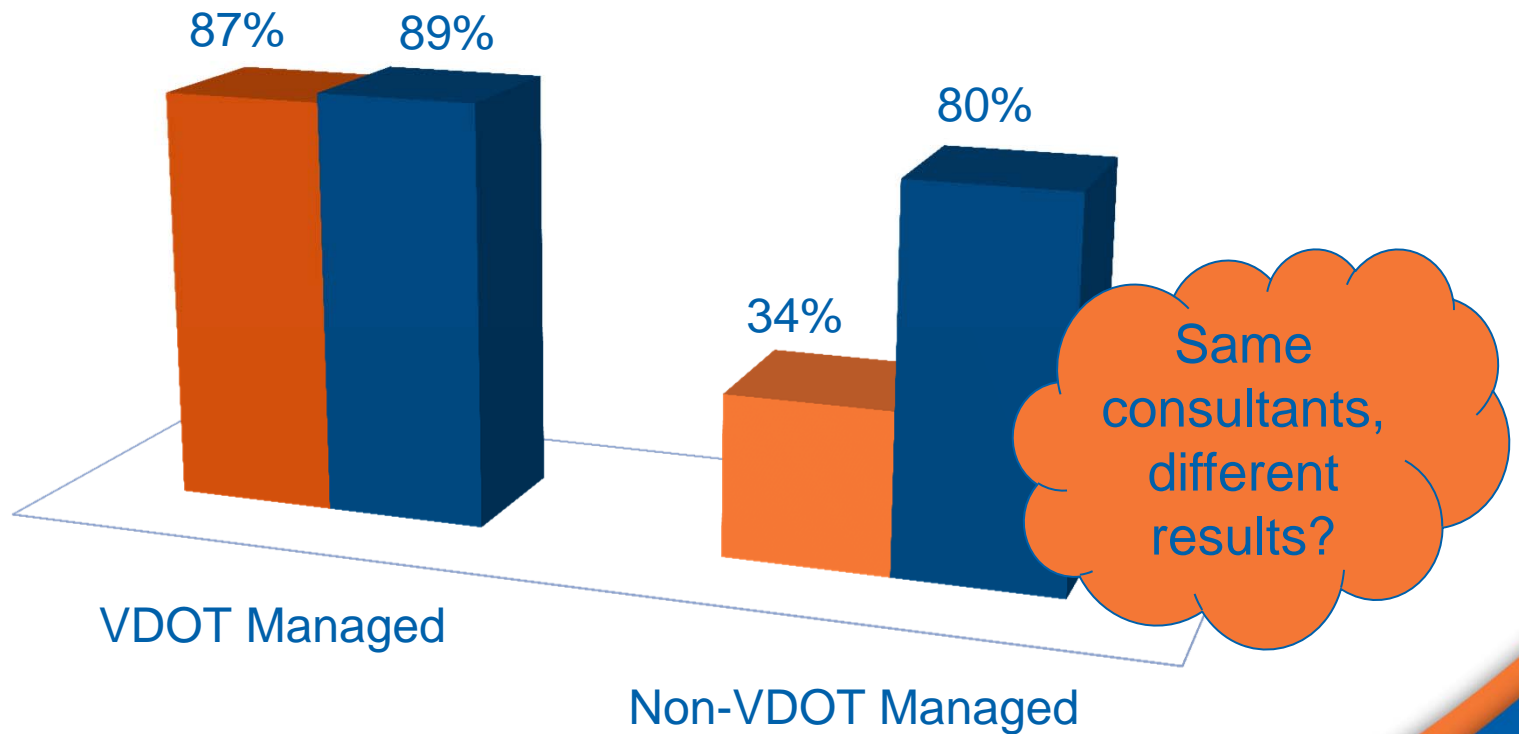
Source: VDOT Dashboard, VDOT Managed Project Development Trend, August 2010

Hampton Roads District FY2012 Project Development Performance



Hampton Roads District FY 2012 Non-VDOT Managed

■ Design & Advertisement ■ Cost Estimation



Hampton Roads District Governor's Initiative Projects

Hampton Roads District Governor's Transportation Initiative Projects				December 9, 2013
	FY12	FY13	FY14	Estimate
✓	State FY 2012 Route 620 – Isle of Wight RW CN Ad 12/13/2011	\$2 m		\$2.4 m
G	State FY 2013 Witchduck Rd – VA Beach PE	\$136 m	RW CN Ad 5/31/2014	\$27.6 m
G	Lesner Bridge – VA Beach PE	RW CN Ad 3/1/2013		\$82.0 m
G	State FY 2014 Lynnhaven Pkwy – VA Beach RW		\$130 m CN Ad 7/9/2013	\$20.4 m
Y	Military Hwy CFI - Norfolk PE		RW/CN Ad 12/13/2013 (Design Build)	\$28.1 m
G	Route 17 – York RW		CN Ad 12/11/2012	\$35.6 m
G	Route 58 Courtland Interchange PE	RW	CN Ad 2/11/2014	\$24.3 m
G	Holland Rd – VA Beach RW		CN Ad 2/11/2014	\$24.1 m
G	Route 609 – Accomack PE	RW	CN Ad 2/11/2014	\$7.5m
G	Route 609 – Accomack PE	RW	CN Ad 2/11/2014	\$2.4m
Y	Route 709 – Accomack PE	RW	CN Ad 6/10/2014	\$ 14.0m
			Total Estimated Construction Cost	\$268 m

PE Phase

RW Phase



Hampton Roads District

Seven Major Economic Bridges

Interstate

Built	Size in sq ft	Vehicles per day (per lane)	Trucks per day (per lane)
Berkley Bridge (8 lanes)			
1990	216,000	101,000 (12,620)	3,050 (380)
Hampton Roads Bridge Tunnel (4 lanes)			
1978 WB 1958 EB	836,000	87,000 (21,750)	3,050 (760)
High Rise Bridge (4 lanes)			
1969	322,000	76,000 (19,000)	6,080 (1,520)
Monitor Merrimac Memorial Bridge Tunnel (4 lanes)			
1992	1,464,000	79,000 (19,750)	3,550 (880)
Twin Bridges (6 lanes + 2 HOV)			
1967	233,000	137,000 (17,120)	5,480 (680)

Primary

Built	Size in sq ft	Vehicles per day (per lane)	Trucks per day (per lane)
Coleman Bridge (4 lanes)			
1996	290,000	32,400 (8,100)	950 (230)
James River Bridge (4 lanes)			
1978	1,583,000	28,100 (7,020)	550 (130)

Transportation Funding Basics

Know who's responsible



CTB Highway Priorities

FY 2013-2018 SYIP

- Fund deficits on underway project phases
- Maximize use of federal funds to meet federal strategy
- Fund underway project phases as well as project phases that start in the current federal fiscal year FFY 2013
- Fund deficient bridges and paving projects
- Increase funding for preliminary engineering

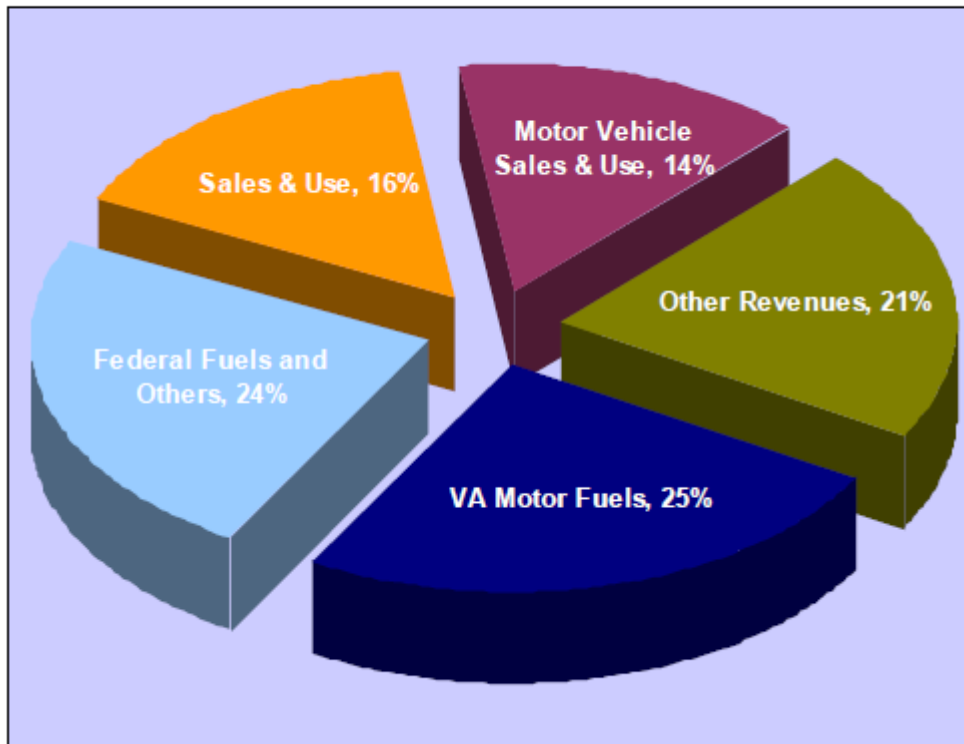
CTB Highway Priorities

FY 2013-2018 SYIP (continued)

- Support development of PPTAs
- Support the Governor's Initiative to move the Commonwealth's fleet to alternative domestic fuels \$4.0 million in CMAQ Terms
- Allocate funds consistent with how they will be obligated and expended
- Redirect inactive balances on projects

State Transportation Revenues

Figure 32: Transportation Funding in Virginia



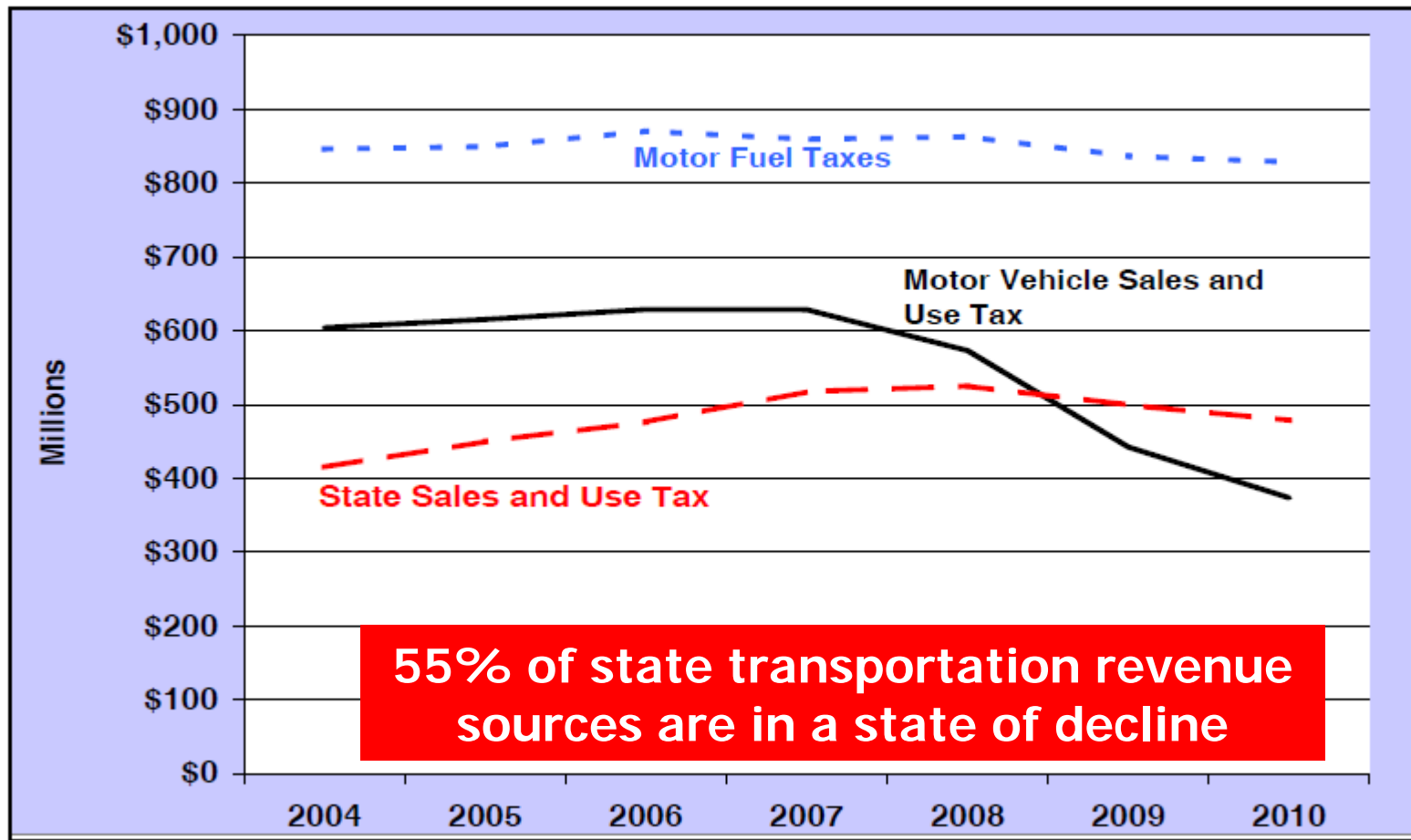
Source: 2035 Virginia Surface Transportation Plan

55% of state transportation revenues are tied to:

- Motor Fuel
- Motor Vehicle Sales & Use
- Sales & Use

Commonwealth Transportation Fund Revenues Histogram by Major Source

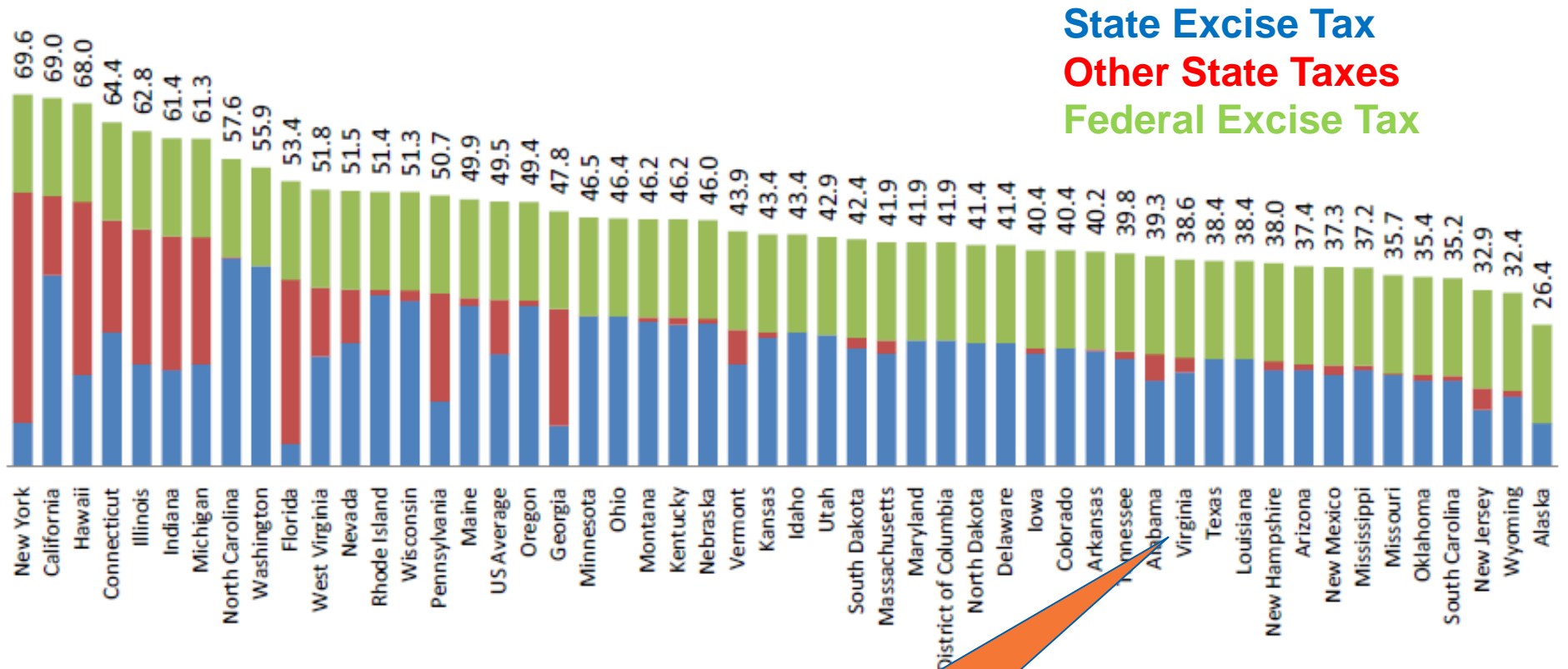
Figure 33: Major Taxes for Transportation Funding



Source: 2035 Virginia Surface Transportation Plan

Commonwealth Transportation Fund

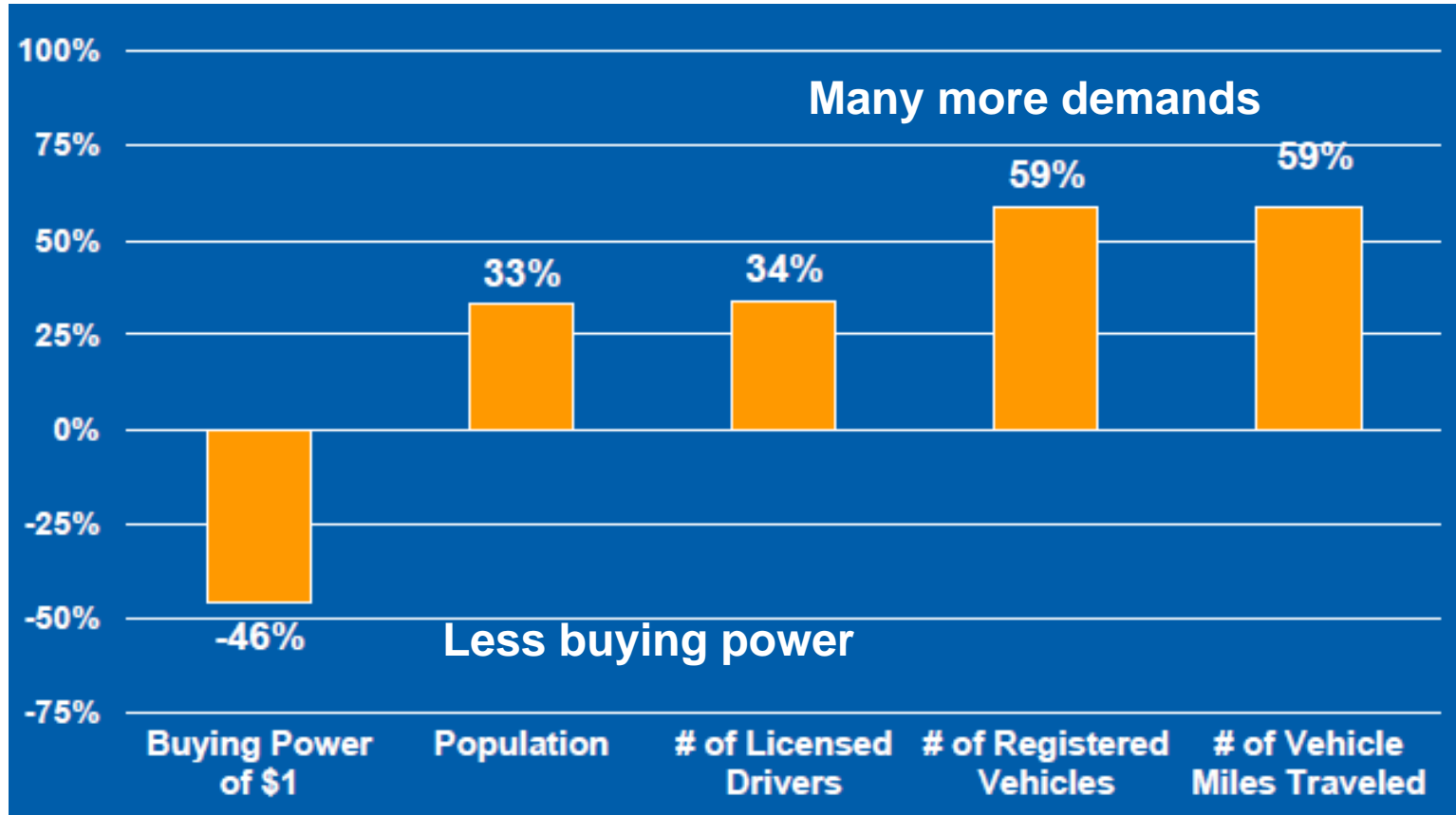
2012 Gasoline Motor Fuel Tax by State



Source: American Petroleum Institute, April 2012

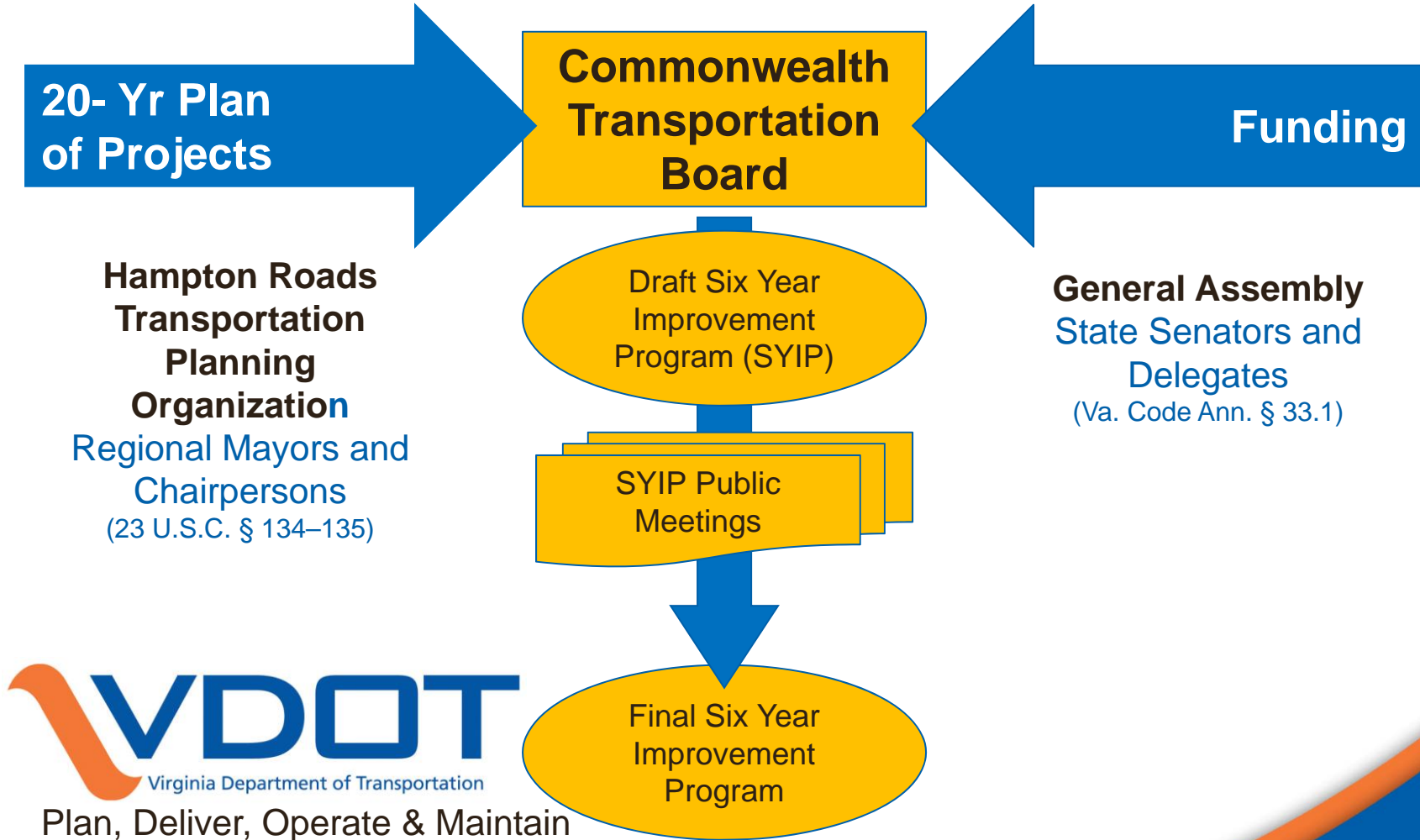
Virginia state motor fuel tax unchanged since 1987

Commonwealth Transportation Fund Changes between 1988 and 2010



Source: VDOT

General Funding Process Summary



Regional Priorities

***Working together for
the greater good***



Hampton Roads TPO: Project Prioritization Components

Project Categories

A set of project categories has been established to evaluate similar projects separately

- Highways
- Bridge/Tunnel
- Bicycle and Pedestrian
- Systems Mgmt /
Transportation Demand Mgmt /
Operational Improvements
- Transit
- Intermodal

**More than
150 projects
worth
\$6.6 billion
over 20 yrs**

Project Utility

A project's ability to solve an existing transportation issue, such as:

- congestion
- safety
- infrastructure condition.

Project Viability

The readiness of the project to be constructed based on available funding and completion of required documentation.

Economic Vitality

A project's ability to support regional plans for future development and economic growth.

Hampton Roads TPO: Top Projects from Prioritization

Recommended Projects for Construction in which Funding has been Identified				
Prioritization Category	Roadway Systems include Interstate, Primary, Urban. Funding is allocated according to roadway system.	Locality	Rank in Roadway System	Prioritization Score
Bridge & Tunnel Projects	Primary Roadway System			
	Midtown Tunnel/MLK Extension/Downtown Tunnel*	Norfolk/Portsmouth	1	242
	Dominion Blvd*	Chesapeake	2	221
	Urban Roadway System			
	Lesner Bridge*	Virginia Beach	1	173
	Mills Godwin Bridge (Bridge Road)	Suffolk	3	150
	High Street (Churchland Bridge)	Portsmouth	6	132
Washington Ave Bridge Replacement*	Newport News	7	111	
Highway Projects	Interstate Roadway System			
	I-64 between Jefferson Ave (exit 255) and R Eustis Blvd (exit 250)	Newport News	1	178
	Primary Roadway System			
	Route 17 (George Washington Hwy) (Hampton Hwy to Dare Rd)*	York County	1	202
	Route 17 (George Washington Hwy) (Dare Rd to Denbigh Blvd)	York County	4	146
	Urban Roadway System			
	Lynnhaven Pkwy (Centerville Trpk to Indian River Rd)*	Virginia Beach	1	191
	Route 58 (Suffolk Bypass to Manning Bridge Rd)	Suffolk	2	180
	Nansemond Pkwy (Helen St to Ches Cl)*	Suffolk	5	159
	Military Hwy at Northampton Blvd Continuous Flow Interchange	Norfolk	6	157
	Bridge Road (Godwin Br to Ches Cl)	Suffolk	8	154
	Holland Rd (Dam Neck Rd to Nimmo Pkwy)*	Virginia Beach	10	141
	Witchduck Rd (I-264 to Virginia Beach Blvd)*	Virginia Beach	11	141
	Laskin Rd (Republic Rd to Oriole Dr)*	Virginia Beach	21	114
	Indian River Rd (Lynnhaven Pkwy to Elbow Rd)*	Virginia Beach	23	109
Laskin Rd (Oriole Dr to 30 th /31 st St)*	Virginia Beach	31	100	
Elbow Rd/Dam Neck Rd (Indian River Rd to Princess Anne Rd)*	Virginia Beach	35	98	
Intermodal Projects	Urban System			
	Craney Island Connector	Portsmouth	1	189
Transit	WATA Administrative Operations Center	James City County	N/A	N/A
	Multimodal High-Speed and Intercity Passenger Rail Station Development	Newport News	N/A	N/A
	Harbor Park Multimodal High-Speed and Intercity Passenger Rail Station Development	Norfolk	N/A	N/A

* Indicates the project is included as a candidate project in the Governor's Transportation Funding Proposal.

Bridge & Tunnel Projects

- Midtown / Downtown / MLK (242) ✓
- Dominion Boulevard (221) ✓

Highway Projects

- Route 17 ✓
 - Hampton Hwy & Dare (202)
- Lynnhaven Pkwy ✓
 - Centerville & Indian River (191)
- I-64 Peninsula Widening
 - Jefferson & Ft. Eustis (178)

Intermodal Projects

- Craney Island Connector (189)

Hampton Roads TPO: Other Projects from Prioritization

Bridge & Tunnel Projects

- HRBT 8-Lane Widening (208)
- Patriots Crossing (190)*
- Lesner Bridge Replacement (183) ✓

Highway Projects

- Intermodal Connector ✓
Naval Station Norfolk (202)
- Route 460
Suffolk to Petersburg (187)
- I-64 Southside Widening
I-464 to I-664 (160)

Transit Projects

- VA Beach Light Rail
Newtown to Oceanfront (204)



* Hampton Roads Transportation Planning Organization
Prioritization of Transportation Projects: Project Evaluation and Scoring
Page 8

Special Projects

Partnerships

for

Success



Why Pursue Public-Private Partnerships?

Challenges Faced by VDOT:

- The highway system is aging
- Maintenance requires increasingly larger share of budget
- Increasing public and economic needs
- Limited resources – current needs exceed available funds
- A strong economy requires efficient transportation



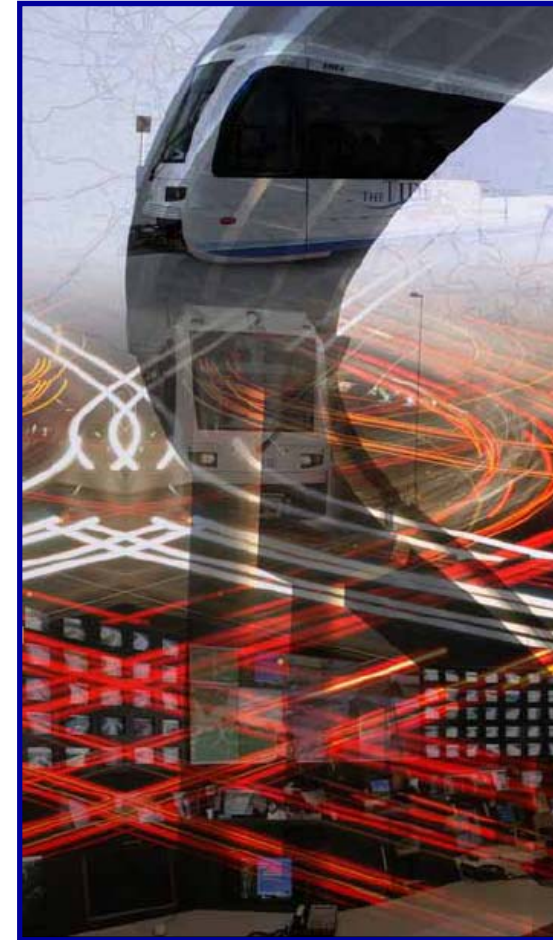
Policy Objectives for Virginia's PPTA

- Public need for the project
- Private resources or risk sharing to help address public need
- Current methods may not be adequate
 - Private development or operation may be more timely, or
 - More efficient or less costly , thereby serving the public interest



PPTA Project Pipeline Hampton Roads Region

- **PPTA projects under construction:**
 - Midtown Tunnel / Downtown Tunnel / MLK Extension
- **PPTA projects under procurement:**
 - Route 460 Corridor Improvement
 - Hampton Roads Bridge Tunnel
 - Port of Virginia
 - Regional Traffic Operations Centers
- **Candidate PPTA projects under review:**
 - I-95 Corridor Improvements
 - I-64 HOV to HOT Conversion:
 - I-64 Peninsula Improvements
 - Hampton Roads Crossing Improvements (combination of all crossings)

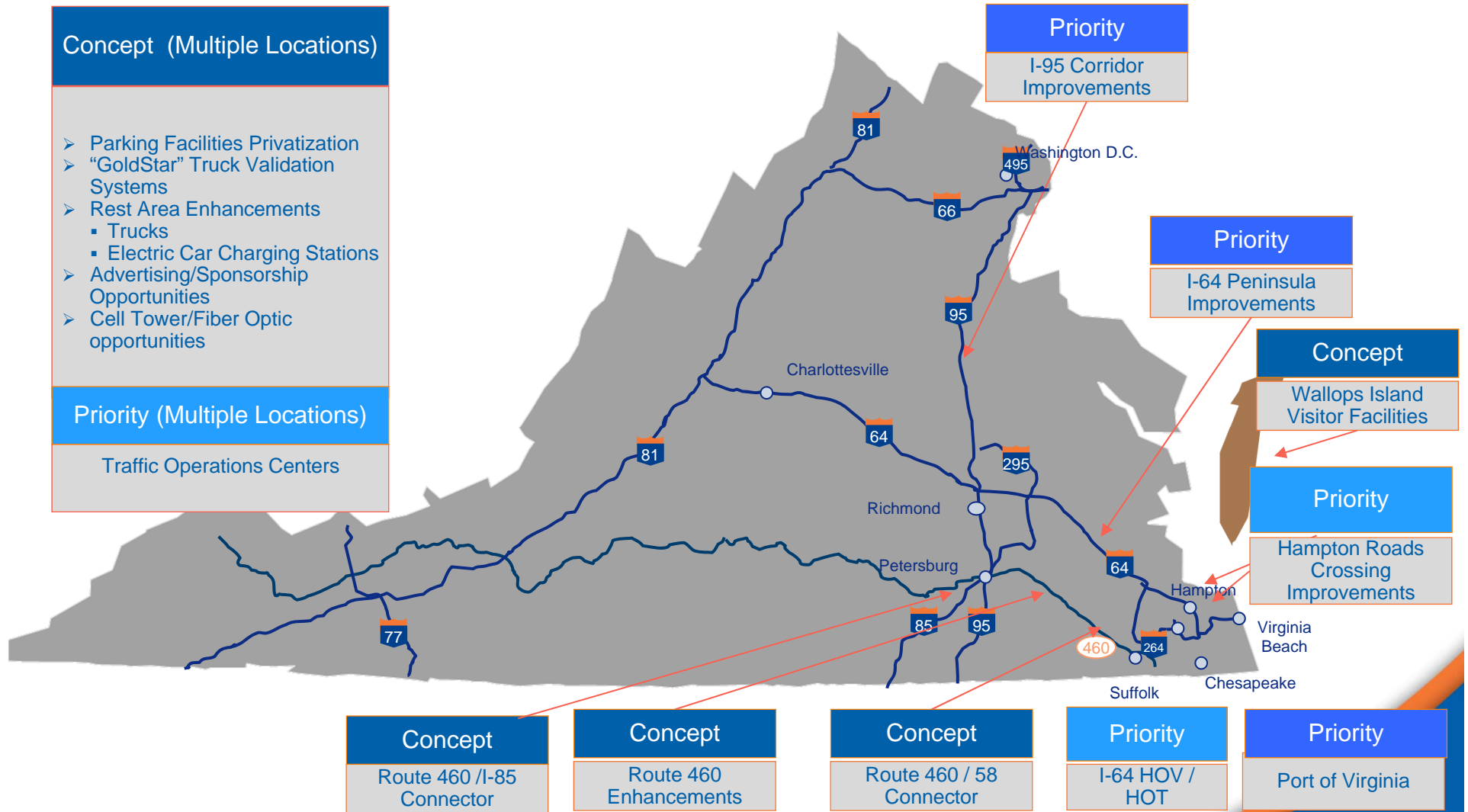


PPTA Project Pipeline

Hampton Roads Region

- **Conceptual projects in the P3 pipeline for further scope identification:**
 - GoldStar Truck Validation System (DMV): smart technology for pre-screening truck weight/credentials at Port and toll facilities
 - Advertising / Sponsorship Opportunities (VDOT): opportunities for non-traditional revenues from “wrapping” Safety Service Patrols, 511 motorist information services, etc.
 - Route 460 / 58 Connector (VDOT): improvements to existing 460 / 58 at intersection of 460 & Suffolk Bypass to I-664; includes widening portions of facility from 4-6 lanes & creating limited access facility
 - Wallops Island Visitor Facilities (VCSFA): visitor center & support facilities
 - I-264 Widening (VDOT): transportation system improvements between Norfolk and VA Beach

PPTA Project Pipeline Hampton Roads Region



Special Projects Status

Hampton Roads Region

UPC	Project	In the MPO-CLRP	MPO Rating	NEPA	Completion Date	Status
56638	Route 460	Yes \$1.4 B	187	Re-Evaluation	Final submitted 10/22/12	FHWA Reviewing
99587	Third Crossing (Patriots)	No \$4.2 B	190	Re-Evaluation	Final submitted 09/26/12	Holding for CLRP
92212	I-64 Widening Peninsula	No \$7.3 B	178	EIS	Anticipated Nov 2013	Draft complete, PH week of 12/10/12
102879	I-95 Improvements	N/A \$12 B	N/A	EA	TBD	Draft submitted 10/24/12, FHWA reviewing
99037	HRBT Expansion	No \$4.5 B	208	EIS	Anticipated April 2014	Draft in development, PH Feb 2013
TBD	I-64 Widening Southside	No \$1.7 B	160	EIS	N/A	N/A

\$31.1B

Questions?